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In reply refer to:
H-2026-194-S

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7 June 1955

MEETING BETWEEN AND CONTRACTING AGENCY HELD ON MAY 19, 20, 1955.
Contract RD-71 (H-2026.1)

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Contracting Agency

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At the start of the meeting, gave verbal approval to to proceed on the design of a 12 to 30 megacycle tuner and on the necessary modifications of the present case design to accept this tuner. A contract amendment to this effect would be forthcoming before 30 June 1955. Many of the items later discussed at this meeting were based on this information.

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reviewed the status of the development work being performed on the RR-11AA receiver. This discussion was primarily of a general nature however, the tuner coils were discussed in some detail. It was pointed out that the investigations conducted by Company indicated that presentaly available core material would not yield coils which met all of the requirements. will contact core manufacturers to determine whether a suitable core material can be developed within the limitations of time and cost in this program. The only shortcoming of the coils developed to date is the Q's obtainable. The low value of Q, especially in the middle of the band will reduce image rejection and sensitivity. This matter will be discussed in more detail in the next progress report (H-2026-5).

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was shown a mock-up of the RR-11AA receiver. He approved of the tuner design and the over-all methods of packaging and fabrication. A detailed discussion of some of the features of the mechanical design was then carried out by all parties present. Some of the more important items discussed are listed on the following pages.

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1. Case Material

[redacted] mentioned that [redacted] plans to use die cast aluminum for the case and cover. It was pointed out that with the use of aluminum the over-all weight of the receiver would be less than the limit of 2 lbs. [redacted] stated that he had no objection to the use of aluminum and that verbal approval was granted to proceed. Written approval will be granted after receipt of a formal request from [redacted] 25X1 25X1 25X1 25X1

2. Control

With the new case dimensions a more optimum arrangement of the controls can be made and greater accessability for each control can be obtained. Due to the additional 3/32" in height available the angle of the recess on the face of the case can be decreased. In addition, since the antenna terminals will be moved to the end of the case the controls can be moved closer to the center and placed further apart.

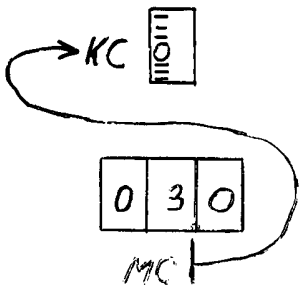
[redacted] in answer to an inquiry by [redacted] stated that a pull out crank for the tuner knob is definitely desirable. 25X1

3. Tuner Cover

[redacted] felt that a cover or partial cover for protection of tuner electrical components and precision mechanical parts would be desirable to facilitate handling. [redacted] agreed to investigate the feasibility of this suggestion. 25X1 25X1

4. Symbolization of Counter and Vernier

[redacted] stated that the symbolization is not covered by any definite specification. He suggested that the following scheme be used (see figure below). 25X1



5. Vernier Lens

[redacted] stated that a magnifier lens for the vernier is desirable even though some parallax exists. He also felt that the vernier should be numbered at every 5 kc instead every 10 kc, so that a number will always be under the magnifier. [redacted] personnel indicated that this could be accomplished. 25X1 25X1

6. Counter

[redacted] pointed out that the Veeder Root counters had a transition period which was about 1/5 of a revolution of the vernier. [redacted] felt that this was rather large and may confuse an inexperienced operator. [redacted] personnel agreed to contact the manufacturer to see if transition period could be made smaller. In the event that the Veeder Root people cannot improve on the transition period, then consideration would be given to extra markings or different color markings on the vernier to resolve the resultant ambiguity. 25X1 25X1 25X1

7. Luminous Vernier and Counter Figures

It was agreed that it would be desirable to have the figures coated with self-luminous material if a suitable life can be realized. One-half life of 4 years is now possible. [redacted] stated that he did not know at this time what the life requirements are (storage plus service), however, he would investigate. He also suggested [redacted] contact the Signal Corps relative to their experience on self-luminous materials. 25X1 25X1

[redacted] 25X1

Project Engineer 25X1

cc: [redacted]